

## CLAIMS

1. A heat insulating system for tubular bodies, comprising at least two superimposed evacuated panels, each of which is internally evacuated and is essentially  
5 formed by an envelope inside which there is contained a discontinuous or porous filling material, each panel being rolled up on itself to the extent that its two opposed edges which are parallel to the rolling axis are set aside and its other two edges perpendicular to the rolling axis form the end edges of the rolled evacuated panel, characterized in that  
10 at least one of said evacuated panels comprises a polymeric filling material and at least another evacuated panel comprises an inorganic filling material.

2. The heat insulating system according to claim 1, wherein said polymeric filling material is open-cells polyurethane.

3. The heat insulating system according to claim 1, wherein said inorganic filling material is chosen among powders, fibers and mixtures thereof.

15 4. The heat insulating system according to claim 3, wherein said fibers are glass fibers.

5. The heat insulating system according to claim 3, wherein said powders are powders of an inert material having mean particle dimensions lower than 100 nanometers.

20 6. The heat insulating system according to claim 5, wherein said powders have mean particle dimensions comprised between about 2 and 20 nanometers.

7. The heat insulating system according to claim 5, wherein the inert material is silica.

25 8. The heat insulating system according to claim 7, wherein the silica is pyrogenic silica.

9. The heat insulating system according to claim 1, wherein the envelope of at least one of said panels is made of barrier sheets.

10. The heat insulating system according to claim 9, wherein said barrier sheets are multilayers sheets.

30 11. The heat insulating system according to claim 10, wherein said multilayers sheets comprise at least one metal foil between two plastic layers.

12. The heat insulating system according to claim 10, wherein said multilayers sheets comprise at least one metallized plastic layer.

13. The heat insulating system according to claim 1, wherein said rolled evacuated panels are arranged with the edges of an evacuated panel diametrically and  
5 longitudinally staggered with respect to the edges of another evacuated panel.